



# UNIVERSITY Bulletin

A publication of The University News Bureau, 45 Willcocks Street (928-2102)

FRIDAY 17th JANUARY 1975

# Medical faculty establishing neuroscience study centre

establish a centre for the study of nervous disease in the Toronto Western Hospital. Unlike most of the work that has been under-taken in Toronto in this field to date, the emphasis will be on biochemistry, immunology and cell biology, where notable ad-vances have recently been achieved in our understanding of some nervous conditions in non-human primates.

A special priority will be given the understanding and control of multiple sclerosis, polyneuritis and other so-called de-myelinating diseases – the major crippling diseases now that poliomyelitis has been controlled by vaccines. (Myelin, a fat-like substance, is a major component of the sheath that surrounds and insulates nerve fibres. When some pathological condition causes the myelin sheath to deteriorate, "short circuits" occur and communication is interrupted between the brain and muscles and such organs as the eyes.)

Work at the new Centre will be financed initially by the proceeds of a gift, made to the University of Toronto by the late Stuart B. Playfair in memory of his wife, Helen Scott Playfair. It will be known as the Playfair Neuroknown science Centre

President John R. Evans said the unit will occupy about 6.000

net square feet of assignable laborspace soon to be made ready by the Toronto Western Hospital.

#### The first director

The first director of the Centre will be Dr. Edwin H. Eylar, 40, a distinguished biochemist and neuroscientist. He was until re-cently director of the Departof Experimental Biology of the Merck Institute in New Jersey and is now professor in the Medi-cal University of South Carolina.

Dr. Eylar has for some years been collaborating with Dr.
William Sheremata of Montreal
and others on the study of an
experimental form of allergic
encephalomyelitis in monkeys that has many points of resem-blance to multiple sclerosis in hu-mans. Both seem to result when the body's own defence mecha-nisms start attacking the myelin sheaths of nerves, causing a pro-gressively more serious inter-ference with nerve communition between the brain and the rest of the body.

Dr. Eylar and his collaborators Dr. Eylar and his collaborators had demonstrated as far back as 1972 that the experimental condition in monkeys could be cured by an injection of certain proteins from the peripheral nervous system, even when the disease had reached an advanced stage and the animal was near death.

There were important differ-

ences, however, between the experimental disease, as induced in monkeys, and the natural condi-tion in humans. In monkeys, for example, the disease is quickly fatal; in humans, it may run its course for many years, with peri-odical remissions and relapses.

#### Striking resemblances

In 1974, Dr. Eylar, Dr. Sheremata and their colleagues, who had been studying the diseases at the molecular level, re-ported their discovery of striking resemblances in the immunological mechanisms that were at work in both the experimental condition in monkeys and in the human disease. They were also able to identify and synthesize the disease-causing sites in both mon-keys and humans.

When neurologists from many parts of the world gathered in New Jersey last summer to review the work there was unanimous agreement that the new disco-veries were of great significance and that more intense study should be made of the disease in humans.

One of the major objectives of

CONTINUED ON PAGE 3



Dr. Edwin H. Eylar First director of the Playfair Neuroscience Centre

# Stroke unit to fight third largest killer



Dr. V. Hachinski, Dr. J.W. Norris, and nurse with monitoring equipment

Stroke is the third largest killer in Canada, but up to this year no specialized centres existed for the treatment of stroke patients. The first multi-disciplinary acute stroke unit in Canada was officially opened at Sunnybrook Medical Centre on Tuesday, Jan. 14.

Dr. C.H. Tator, head of the division of neurosurgery at Sunnybrook, emphasized that the critical period for treatment of stroke victims was the first few hours following the attack. Each bed in the five-bed intensive care unit is fitted with sophisticated equipment for continuous monitoring of a patient's heart rate, blood pressure, and intracranial pressure. Adjustable alarms can be set to warn nurses in a central nursing station whenever these functions go above or below critical levels, and all readings are recorded on a computer.

In this way the unit enables intensive observation of patients during a critical period, for both diagnostic and therapeutic purposes. The unit, as part of the U of T department of neurosciences, can also be used for research into the causes and treatment of stroke.

Funds for the building of the unit were raised by a former stroke patient at the Medical Centre, Graham MacLachlan, after whom the unit has been named. One of the neurologists staffing the unit, Dr. J.W. Norris, visited similar set-ups in the U.S. and England to gather information which would make the MacLachlan unit the most modern and best

available.

With this specialized care, patients usually need spend no longer than a week in the intensive-treatment unit. "It is hoped," said Dr. Tator, "to use the unit as a model where new methods of treatment can be examined. We hope it will increase the awareness of stroke problems among both lay people and doctors." A great deal can be done for the problems are not better that the contract and the stroke problems. stroke patients, and this new unit will give more knowledge of one of the commonest causes of chronic disability.

# Three by-elections may be needed in '75-'76 General Council voting

of Governing Council have given notice of their desire to resign before the completion of the terms for which they were elec-

If Council accepts the resignations, there will be seven teaching staff seats to fill in the election begins with nominations starting on Jan. 27, as well as the eight student seats, for which voting takes place annually.

The members resigning are Prof. John E. Dove and Prof. Harold Smith, elected last year for three year terms, and Dr. J.C. Laidlaw, whose term expires in 1976. Prof. Dove is chairman of the Academic Affairs committee.

#### Why they wish to resign

Prof. Dove has intimated that the combined load of his teaching duties, Council membership, and the chairmanship of one of its key

committees has become too onerous. Dr. Laidlaw is leaving U of T at the end of June to become chairman of the department of medicine at the McMaster medical medicine at the McMaster medical school, and Prof. Smith is as-suming responsibilities in the School of Graduate Studies that will remove him from the constituency he represents on Coun-

Councillors whose terms run out on June 30 of this year are Profs. Harry C. Eastman, Charles Hanly, W. Barry Coutts, and Michael Grapko. They were elected for three years each in the first Governing Council election in 1972 and can be renominated and seek re-election.

Students whose one year in office ends on June 30 are four who hold undergraduate seats: Shirley French, Peter Jarrett, Stephen Moses, and David Shindman; two representing graduate students: Kitty Hoffman and E. Vernon Copeland, and two representing part-time undergraduates: Arlene

part-time undergraduates: Ariene Dick and William J. Whelton.

Nominations will remain open from Jan. 27 until 12 noon, Feb. 14. Nomination forms will be available on and after the 27th from the Governing Council secre tariat, Room 106, Simcoe Hall, and at the offices of the registrars at Erindale and Scarborough Colleges. Inquiries may be directed to the Secretariat at 928-2160.

#### No admin, staff election

An election for the two administrative staff seats is not necessary this year, as Keith R. Bowler was elected in 1974 for a three-year term and Gwen Russell has an-other year to go after June 30.

The alumni College of Electors currently holding an election to fill the seats vacated by three alumni members whose terms ex-pire at the end of June. The incumbents, who can be renomin-ated, are Patti Fleury, C. Ian P. Tate, and Harry J. Riva

SEE PAGE 3







John E. Dove

For more medical news Better treatment of spinal injuries Wheelchair with racing stripes

Harold W. Smith

J.C. Laidlaw

# Music professor wins film award

Chairman of the graduate department of music, PROF. LOTHAR KLEIN, last year composed and conducted the original fins score for the educational documentary The Edge of Evolution, which was recently cited as "the outstanding Canadian educational-documentary film of 1974" by the Canadian Association of film producers. The 45-minute lift mass produced by Imperial Oil Ltd. in collaboration with the University of New Brunswick.

This is the second time Prof. Klein's work has been so cited. In 1964 he received the Golden Reel Award of the American Academy of Film Sciences for his score to a theatre documentary, An Actor Prepares.

#### Victoria College

PROF. CHARLES N. GENNO
was elected chairman of the Onlario Association of Teachers of
German at the annual meeting on
Nov. 2. PROF. WOLFGANG
As
HEMPEL OF St. Michael's College
was elected treasurer.

#### Erindale College

PROF. DESMOND MORTON served as resource person at a conference of university and community college governors sponsored by the Ontario Federation of Labour on Oct. 3. His article on "Ontario Today" has stolen accepted to introduce a textbook on government and politics in Ontario to be published by Mac-

ontains to be published by Macmillan in the new year.

PROF. ANDRE L. STEIN has had his book L'Ecologie de l'Argot Ancien, published by Librarie Nizet, Paris, 1974, 306 pages.

PROF. DAVID DUNLOP and

Monika Bailey, Chris Hale and Srinivas Thanneer from the Rock Magnetism Laboratory attended the Takesi Nagata Conference in Pittsburgh, June 3-4. The conference was held to honour Prof. Nagata, who has been a leader in both rock magnetism and lunar research, on the occasion of his retirement from the University of Tokyo's Geophysical Institute and his appointment as Director of Japan's Institute for Polar Re-search. The areas in which Prof. Nagata has made outstanding contributions were described in review papers (one on "Rock Magnetism - Basis of the Paleomagne tic Record" given by Dr. Dunlop), each followed by informal discus-sions. About one hundred sci-entists and students attended, and all agreed that the conference was an unusually successful survey of the state of the art in earth and planetary magnetism.

In the July 26 issue of Nature PROF. MICHAEL KIMBERGY PROF. MICHAEL STRONG AND AUTRILIAND OF THE AUTRI

PROF. D. MORTON delivered a paper to the Military History Club of Hamilton on Oct. 16. His topic was "Sir William Otter: A Case Study of Branch Plant Professionalism". The club is jointly sponsored by McMaster University and the Hamilton Military Insti-

PROF. R. RACINE visited the Kitt Peak National Observatory in Tucson, Arizona, Aug. 19-23, to discuss the auxiliary instrumentation of the Canada-France-Hawaii



Prof. Lothar Klein

ielescope with KPNO astronomers and engineers. He was in Paris and at the Meudon Observatory, Septing 23-28, attending CFHT working group meetings and chairing a session on Photometric Equipment, On Oct. 11 he gave a colloquium to the Department of Astronomy of the University of Pennsylvania (Philadelphia) on "Globular Clusters and Galactic Halos" and attended an IAU Colloquium on "Multicolor Photometry", for which he was Canadian organizer, in Albany, N.Y., Oct. 24-27.

PROF. E.T. SILVA read a perper "From Kracauer to Hollywood: Suggestions for Revisions based on New Data from the 1920's" to the annual midwest meeting of the Popular Culture Association held in Chicago, Oct. 10-12. While in Chicago, he also spoke at the University of Illinois (Circle Campus) on "The First Family: Kinship Connections A-

mong the American Presidents".
PROF. J. SIMPSON read a paper entitled "On the Trail of the Sacred: The Social Psychology of Backpacking" at the annual meeting of the Society for the Scientific Study of Religion, Oct. 24-27, in Washington, D.C.

#### Medicine

PROFS. NANCY JOY, MARGOT MACKAY and GARY COUSINS attended a meeting of the (international) Association of Medical Illustrators (AMI) in New Orleans, Oct. 19-23. Prof. Joy has been appointed member of the AMI Council on Education for 1974-75. The AMI, in collaboration with The Health Sciences Communication Association, has recently published Vol. 1, No. 1 of "The Journal of Bio-Communications", which succeeds the Medical Art Journal of the Association of Medical Illustrators which has ceased publica-tion. A meeting of the Canadian Academy of Medical Artists (CAMI) was held at Sunnybrook Hospital on Oct. 17 and 18. Prof. Gary Cousins gave the Presidential address. PROF. FREDERICH LAMMERICH gave a de-monstration on three-point perspective and orthoscopic drawing as it relates to Medical Art. PROF. ALEX WRIGHT attended a meeting of the American Society Plastic and Reconstructive Sur-geons, Oct. 28-31 in Houston, Texas, and gave a paper "Facial Reconstruction: New Tools for Planning, Documentation and Fol-

DR. CALVIN EZRIN, DR. EVA HORVATH, and DR. KALMAN KOVACS were invited to lecture on the pituitary gland during the course "Pathology of the Endocrine Glands" at Harvard Medical School, Boston, which was held Nov. 4-9. This is the first time in the 15 year history of the course that lecturers other than the staff of the Harvard Medical School have been asked to participate.

On Oct. 1 on invitation of the Board of Health and the Department of Public Health, City of Toronto, DR. MICHAEL LENCZNER gave an address on "Parasitic and Tropical Diseases: The Change in Pattern of Public Health."

DR. PAUL G. WALFISH attended the American Endocrine and American Diabetes Association meetings held in Atlante, Ga. Jurne 12-16. He also attended the American Thyroid Association meeting Sept. 18-21 in St. Louis, Mo. and a paper entitled "Screening for Neonatal Hypothyroidism using Dried Capillary Blood: Observations on Sample Collections and Haematocrit Variations" was presented indicating his current progress in his National Health and Welfare grant program entitled "Early Detection of Hypothyroidism in the Newborn and the Prevention of Mental Retardation".

#### Dentistry

DR. D.G. WOODSIDE participated at the Great Lakes Society of Orthodontists meeting on Oct. 5 and 6. The senior orthodontic graduate students presented a table clinic during this meeting.

DR. D.B. McADAM recently attended a three-day seminar at the University of Michigan on "Dental Materials".

DR. W.D. MacKAY attended at Dental Materials Conference at Ann Arbor, Michigan from Oct. 2 to 4 on the subject "Advances in Direct Restorative Materials".

DR. A.M. HUNT presented a paper entitled "Public Dental Services in Britain, the Scandinavian Countries and the Union of Soviet Socialist Republics" to the Canadian Society of Public Health Dentists at Kimberley, Ont. on Oct. 5.

DR. A.B. HORD addressed the Bytown General Practice Academy on Oct. 19. He also attended the Dental Materials Conference at the University of Michigan from Oct. 2 to 4.

DRS. B.J. SESSLE and L.F. GREENWOOD were panel members of the session "Dental Pain: Its Origin and Control" at the Canadian Dental Association Convention in Toronto from Oct. 6 to Dr. Sessle gave an invited talk entitled "Feedback and Oral Facial Motility" at the 27th An-nual Conference on Engineering in Medicine and Biology in Phila-delphia from Oct. 6 to 10. Dr. Sessle has been awarded a three-year contract grant from the National Institute of Child Health and Human Development, Beth-esda, for a study entitled "Neural Mechanisms Involved in the Func tions of the Upper Respiratory Tract". The Institute sees a vital Tract". The Institute sees a vital need for studies of development of structure and function in the upper respiratory tract to provide baseline information pertinent to the elucidation of the sudden in-fant (crib) death syndrome. The proposed study would investigate the effects of sensory feedback from larynx, pharynx and oral-facial regions on brain cells involved in respiratory functions in in fant and adult animals. Co-investigators on the project will be DRS. A.T. STOREY and L.F.

DR. A.R. TEN CATE has been appointed to serve as a member of the Provincial Task Force to study health research requirements of the Province over the next decade.

eenwood

DR. D.G. WOODSIDE presented a five-day program to the Spanish Society of Orthodontists in Torremolinos, Spain, Oct. 14-18.

## **RESEARCH NEWS**

Dossier of Key Research Areas

As an addition to its service function, ORA has begun, for the federal government, the compilation of a dossier of research areas in which the U of T has particular strength.

Department chairmen and deans have been asked to help in the identification of distinctive research capabilities. ORA has frequently been asked for listings of such areas not only by federal but also prominial agencies, and the dossier complation represents an effort of the dossier complete rather than ad hoc to meetly clausificative, file of the University's major research resources. Is hoped that such a dossier once compiled and coordinated, may easily be upded that such hossier may equally be useful in compiling data on comparative funding fevels and in seeking additional research fund-

Ministry of the Environment

The Air Resources Branch of the Ministry of the Environment is accepting research grant proposals for the fiscal year 1975-76. Applications should be forwarded to ORA by Feb. 17 in order to reach the agency by the deadline. The necessary signatures and a completed form ORA 5 are required as usual.

Medical Research Council and Health & Welfare Canada

A clearer definition of the area of research support has been provided by MRC and Health and Welfare Canada. MRC provides support for research projects in the health sciences and clinical trials for assessment and validation of diagnostig and treatment procedures. Health and Welfare Canada provides support for health care research problems and suggestions for improvement of health related practices, disease prevention, and the need for health services. Copies of the statement explaining this information in more detail have been sent to the Dean of Medicine for distribution or are available from ORA by calling 928-2874.

Canada Council Explorations Program

Closing dates for applications to the explorations program have been changed. The new dates are: March 1, June 1, and Dec. 1, for receipt in Ottawa. Information concerning the program is available from ORA by calling 928-2874.

Ministry of Education

Grants in aid of educational research are available from the Ministry of Education. Applications, in 13 copies, should reach ORA by March 3. Information has been sent to chairmen of some departments and may also be obtained from ORA by calling 928-2874.

# UN program supports feasibility studies

The following letter is from Douglas Lindores, First Secretary, Permanent Mission of Canada in the United Nations:

You may be aware that the United Nations Development Program products technical assistance and pre-investment feasibility services to developing countries throughout the world. One of the key elements in the execution of projects is the UNDP Projects Execution Division within the UNDP Headquarters in New York.

The Director of this Division has recently asked our assistance in establishing contact with key members of the various faculties of the University of Toronto. The Division has a large budget for financing academic personnel in studies designed to identify and analyse economic development agencies. Certain areas of expertise such as economics, regional economic planning, government administration, management information systems, export trade promotion, etc., are obviously required by the UNDP. I would be grateful if you could forward to me a list of key contacts in any faculty of your university which you feel would be interested in and capable of undertaking assignments in virtually all fields of development. Your assistance in this matter will be greatly appreciated.

Interested persons should write directly to Mr. Lindores at Suite 250, 866 United Nations Plaza, New York, N.Y., 10017, U.S.A.

# WUSC makes appeal for hurricane Fifi victims

The World University Service of Canada has sent the following open letter to the faculty at U of fore and after September's Hur-

In the wake of Hurricane Fifi, World University Service of Canada is appealing to Canadian colleges and universities to raise funds in support of a World University Service of Honduras reconstruction project to help some of the 350,000 hurricane victims.

The project will provide 100 houses; two wells of drinking water; 100 sewing machines for cottage industry; 600 army cots for the homeless; and 50 sets of camping equipment for student relief

To support this appeal, World

University Service of Canada has produced a sound slide show depicting life in Honduras both before and after September's Huricane Fifi. Gale force winds and torrential rains brought severe flooding and wide-scale destruction roughly estimated at 15,000 dead; 30,000 kolated or missing; 10,000 homeless and 80,000 homes destroyed.

University of Honduras personnel have each donated one day's pay for the victims to the National Emergency Committee.

tional Emergency Committee.

World University Service of
Canada is asking for a donation
from faculty members in Canada.
They can be made out to WUSC
and sent to Prof. Andre Gombay
in the Department of Philosophy.

## Sunnybrook opens special unit to treat spinal cord injuries

A spinal injury can happen to anyone - the most common cause is a motor accident - and the result can be permanent paralysis of the legs, bladder and bowel. The key to avoiding this result is quick and modern treatment, and to make this possible the Ontario Ministry of Health has recently given a two-year grant of \$94,000 to the Sunnybrook Medical Centre. The grant is to make possible the updating of the Centre's Acute Spinal Cord Injury Unit as the major facility of its kind in Ontario and as a model for other treatment centres

#### Speedy action aids recovery

Damage to the spine is frequently followed by a progressive decrease in blood flow to the nerve cord and a corresponding decline in oxygen level. Death of the nerve cells, which the body

cannot replace, can ensue within a few hours

There are, however, forms of treatment which prevent this oc-curring. "If we could have transfer to Sunnybrook within an hour or two of the spinal cord injury, chances of recovery would be significantly increased", says Dr. Charles Tator, associate professor of medicine, and head of the division of neurosurgery at Sunny-brook. The Centre is ideally suited for this purpose, with its own heli-port to facilitate swift transfer of patients from remote areas, and a team of specialists with extensive experience in treating spinal cord injuries.

Treatment involves a number of procedures requiring different expertise. Special x-rays of the spine are taken, using dye injections to show up the site of the damage. Transmission of nerve impulses through the injured area is tested

Spinal Cord Injury Unit

Members of the Spinal Cord Injury Unit team, left to right: Janet

Smith, head nurse; Dr. G.E. Griesdale, neurosurgical resident; Dr. C.H.

Tator, head, Division of Neurosurgery; and Virginia Edmonds, special studies co-ordinator. (Photograph by Ivan Creighton)

by stimulating the nerves on one side and recording the response at the other.

The initial management of the injury also often requires imme-diate relief of pressure on the spine and immobilization of the vertebral column. Because spinal injury means loss of control of the body below the site of damage, management of the urinary tract is also important, and in addition to the neurosurgeon, neuro-radiologist and neurophysiologist the team includes an orthopaedic surgeon, urologist, physiotherapist and specially trained nurses and

#### Major cause of mortality

One particular problem faced by patients who have lost their sense of feeling is to prevent pressure sores, which are a major cause of mortality in these patients. Through lying or sitting on the same part of the body all the time, circulation to that part becomes restricted, the muscle loses tone, and chronic septicaemia (blood poisoning) can set in and spread to the rest of the body. Pa tients must be educated to change their position regularly, as part of the rehabilitation program.

Dr. Tator is confident that the operative treatment and drug therapy methods used at Sunnybrook allow us to treat critically jured spinal cord patients with significantly better results than were possible five years ago." It is anticipated that the Unit will even-tually operate at the rate of one new patient every two weeks and that there will be approximately six patients nursed in the Unit at any one time. With the immediate treatment they receive and new methods of health care, rehabilita-tion will be accelerated and costs



## Wheelchair with stripes

A wheelchair with racing stripes?

The latest wheelchair designed and produced at the Hospital for Sick Children does have racing stripes, but this is just one of its special features.

The chair, designed specifically for patients with muscular dys-trophy, is actually a brace de-signed to prevent spinal curvature. Designed for an everyday home-and-school environment,

the chair is cleanable, lightweight and easily disassembled. The whole seat can be removed and used as a car seat. Since close follow-up, using standardized X-rays, is crucial for its assess-ment, the hospital's Department of Medical Engineering has designed a special X-ray chair that holds the child stable but without spinal support. Vertical and horispinal support. Vertical and non-zontal calibrated bars that show up on the X-ray give the ortho-paedic specialist a standard frame of reference for assessing the degree of scoliosis.

In the 14 months the chair has been in use, spinal curvature has been carefully monitored and preliminary results are most encouraging. There are 13 patients using the chair now, and their ages range from eight to 14. Six of them live at home; the remaining seven are in special residences. All enthusiastically endorse the model which allows them to sit comfortably for nine to 14 hours at a time as opposed to two or three hours at a time with a conventional wheelchair.

wheelchair.

The chair project is supported by grants from the Muscular Dystrophy Association of Canada and Health and Welfare Canada to Dr. Donald Gibson, chief of or-thopaedic surgery, and Dr. Michael Albisser, director of medical engineering. Jan Koreska, the bio-engineer responsible for the design, has a structural engineering background, a Master's degree the mechanical properties of bone, and several years' ex-perience at a Danish orthopaedic hospital.

# Medical faculty founds new centre

CONTINUED FROM PAGE 1

Hospital will be to press on with this work. Dr. Eylar also hopes that the Centre will serve as a point of contact and a focus for the exchange of ideas and mutual stimulation for the many Toronto groups that are working in the neurological field.

Funds accruing from the bequest by Mr. Playfair in 1961 of a block of shares, valued then at about one million dollars and now worth appreciably more, will provide for operation of the unit over an initial 10-year period and for the salaries of the director and up to five additional members of the Faculty's academic staff. It is expected that staff members will also obtain substantial support from various granting agencies for the provision of additional equip ment and operating expenses.

#### Provided 'seed money'

The Playfair Fund has for more than a decade been used to pro-vide "seed money" to get a wide

variety of research projects rolling in the field of neurological science at the University of Toronto. Many of these projects have been directed at gaining a better understanding of the causes and me-thods of controlling Parkinson's Disease, also know as the shaking palsy.

Because of the immensity and complexity of the problem, a wide variety of approaches have been employed in the Faculty of Medicine and its associated teach-ing hospitals. They have ranged from attempts to understand the physiology of a normally functioning nervous system, its bio-chemistry and electrochemical functions, to the pathology, re-medial pharmacology and surgery

of malfunctioning systems.

The modest but none-the-less significant successes achieved over a period of years in Toronto have served to attract a remarkably talented group of medical scien-tists from many parts of the world, including Dr. Oleh Horneykiewicz, whose pioneer work on the biochemistry of central areas

tended by more than 50 people,

of the brain led to therapeutic procedures based on dopamine and l-dopa, or levo-dopa.

#### Joining U of T July 1

Edwin Harold Eylar was born in Montana in 1934 and gained both his B.S. and M.S. from Mon-tana State College (the second in physical chemistry). Three years later, in 1958, he gained his Ph.D. in biochemistry from Harvard University. He worked at Massachusetts General Hospital and Harvard Medical School and then, successively, at Indiana University Medical School, Southern Cali-fornia Medical School and as senorma Medical School and as se-nior research associate at the Salk Institute of Biological Studies in La Jolla, Calif. He is author or co-author of more than 90 papers in various journals. Many of them deal with the biochemistry of the central and peripheral nervous systems. He will join the U of T on July 1.

### Visitor in Physics

Dr. Evans Hayward, National areau of Standards, Washington, D.C. is Visiting Professor in the Department of Physics until January 25. She will give specialized seminars in nuclear physics at 4 p.m. on Monday, Jan. 20 in room 102; Tuesday, Jan. 21 in room 134; and Wednesday, Jan. 22 in room 102

Private discussions with Dr. Hayward may be arranged through either Prof. A.E. Litherland (928-3785) or Prof. K.G. McNeill (928-2940)

## Students go to Iceland

Seven Scarborough College students in the Geography Divi-sion of Social Science are each willing to pay \$500-600 out of their own pockets to go to Iceland this coming May and June, where they are planning to do a fairly comprehensive study of Icelandic

Their leader, Prof. Jackson of Scarborough's Depart-ment of Geography, says he hopes the group will get some money through research grants, but if not, the students will pay their own way.

Why go to Iceland to study farms?

According to Prof. Jackson, who has been there three times already, the history of Icelandic

farms is, well, different. "Settlement patterns in Iceland haven't changed that much in the last 900 years," says Prof. Jack-son. "Current patterns are more of an evolution than a wholesale change such as England and other European countries experienced.'

In fact, some farms mentioned in ancient Icelandic sagas are still operating today, but under modern technology.

"Since the whole of central Iceland is a desert and has histori-

cally been a volcanic area, farms are found only in the peripheral lowlands. lowlands, valleys, and slopes,' says Prof. Jackson.

The Scarborough students plan to construct an up-to-date map of settlement patterns to compare with older ones and they will also examine physical sites, land use, and economic characteristics of farms to explain historical changes that have taken place. Iceland's small size makes it almost ideal for this type of study.

Although technology and eco-nomics have changed Icelandic farming the environment has also farming the environment has able to the an important influence, notes Prof. Jackson. "In 1703 there were 4,059 assessed farms and 3,000 abandoned ones," he says, quoting an article by says, quoting an article by Thorarinsson Sigurdur, a noted geology professor at the Univer-sity of Reykjavik. "This was in part attributed to the removal of woods which caused soil erosion, but a colder climate also contributed to a loss of production on the farms that were still operat-

Today, a cooling climate is reducing hay crops and some Ice-landers are worrying about the effects of vet a further cooling trend

Besides Prof. Jackson, members of the Scarborough College Ice-land Expedition group are: Bob Elder, Lorne Green, Adele Harradine, Jim Leighton, Ted Morris, Barbara Porter, and Dianne Russell.

## The University and the minorities

The relationship between the University and ethnic minorities in Toronto came under discussion on Wednesday night in Hart House when Dr. Dan Hill, the President's adviser on human rights; Vice-president Jill Conway, and other representatives of the University met with representa-

University met with representa-tives of the visible minority press.

The purpose of the meeting, at-

was to acquaint University person-nel and student groups with the views of the visible minority press and to provide an opportunity for exchange of ideas. Many useful suggestions for the mutual benefit of the University and ethnic minorities were raised. A fuller account of the meeting will appear in next week's Bulletin.

## **COMING EVENTS**

17 FRIDAY
Lecture — Rilke Symposium,
"The Psychological Conflict in
Rilke's Life". Prof. Einhart
Kawerau, MeMaster University.
Combination Room, Trinity College. 8 p.m. (Graduate German
and Goethe Institute)

18 SATURDAY

Lecture – "The Longer You Can Look Back, the Farther You Can Look Forward". Dr. Jack G. Dale, chairman, Centennial Committee, Dental Education in Canada. Convocation Hall. 8.15 p.m. (Royal

Canadian Institute)
Music – Chamber Players of Toronto. Water Hall, Edward Johnson Building. 2.30 p.m. Tickets \$2.50, students and senior citizens

Music – Bach Youth Ensemble. Meeting Place, South Building, Erindale College. 3.30 p.m. Free

21 TUESDAY

Lecture – lecture by Dr. Robert Moore, High Commissioner for Guyana. 1017 New College. 8 (Latin American Studies

ommittee)

coture - "Economic Growth:

Tohn Olthuis. Lecture -Blight or Blessing". John Olthuis, Committee for Justice and Liberty, Institute for Christian Studies. 229 College St. 8 p.m. (Association for Advancement of Christian Scholarship)
Scholarship
Struggle for

Lecture - "The Struggle 101 L People's Art Today". Barry Lord. S-309, Scarborough College. 8

Colloquium - "White Holes". Kayll Lake, Department of Astronomy. David Dunlap Observatory.

4 p.m. (Astronomy)

Debate - "Multinational Corporation Investment in Canada", chair-man Prof. David Gauthier, Philosophy Department; and film "The Takeover Game". 2072 South Building, Erindale, 8 p.m. (Missis-sauga Chapter, Committee for an Independent Canada)

22 WEDNESDAY

Lecture - "International Counter-feiting: The Euro-Dollar Market and What It Means to Canada". Prof. Lorie Tarshis, chairman, Social Science Division. R-3103 Scarborough College. 1 p.m. Scarborough (Scarborough) Lacture – "Is the Darwin-Marx Authentic?"

Lecture - "Is the Darwin-Marx Correspondence Authentic?" Prof. Lewis Feuer, Department of Sociology. 1016 New College, 40 Willcocks St. 8 p.m. (IHPST)

Colloquium - "Brain Control: Fact and Fantasy", Dr. Elliot Valenstein, University of Michi-gan. 2117 Sidney Smith Hall. 4 p.m. (Psychology)

p.m. (rsychology)
Meeting - Victoria Women's
Association. Guest speaker, Mrs.
Frank P. Fidler, former president VWA Refreshments Wymilwood, 150 Charles St. West.

Zp.m.

Radio - "Turkish Literature
Through the Ages". CJRT-FM
(91.1) 10 a.m. and 7.30 p.m.
(Islamic Studies and Open Col-

- "Elixir of Love" (Donizetti). Jan. 22, 24, 25 and 27. No performances Jan. 23 or 26. Mac-Millan Theatre, Edward Johnson Millan Theatre, Edward Johnson
Building. 8 p.m. Tickets \$3.50,
students and senior citizens \$2.
with I.D. Cheques payable "U of
T". Enclose stamped, addressed envelope, (Music)

23 THURSDAY

"Issues in Treatment" Seminar - "Issues in Treatment" series. "Research into Treatment: Problems and Opportunities". Dr. George Blake, Alcoholism Treat-ment Unit, Whitby. Auditorium, 33 Russell St. 12 noon. (Addic-tion Research Foundation)

Seminar - 'Plan Generation: A Family of Design Methods Useful Generating Physical Plans". of Michael Batty, University of Reading, Pa. Visiting professor of engineering, University of Water-loo. Coach House conference room 111, 150 St. George St. 2 p.m. (Centre for Urban and Community Studies and U of T/York Joint Program in Transportation) Seminar - "Approaches to Re-gional Wastewater Management Problems: Optimization and Simulation Techniques". Prof. B.J. Adams, Department of Civil En-gineering and Applied Mechanics, McGill University. 211 Haultain Building. 4 p.m. (IESE)

Seminar - "Stoian Chomakov: A Bulgarian Nationalist Turcophile, Bulganan Nationalist Turcophine, 1856-78''. Prof. Thomas Meininger, Atkinson College, York University. Upper Library, Massey College. 8 p.m. (Russian and East European Studies)

Colloquium - "Structuralism -Tool for Looking at Ourselves" "Structuralism - A Prof. Iain Prattis, Department of Anthropology, Carleton University, Main floor theatre, Library Sciences Building. 4 p.m. (Anthronology)

Colloquium - "High Resolution Spectroscopy". Prof. Boris Stoicheff, Department of Physics. 102 McLennan Physical Labora-102 McLennan rugattories. 4.10 p.m. (Physics)

New adaptation by Martin Hunter and Michael Macina. Directed by Martin Hunter. Hart House Theatre, Jan. 23-Feb. 1. No performances Sunday or Monday. 8.30 p.m. Tickets \$3, students \$1.50 with I.D. (Drama Centre) - Faculty of Music student ensembles. Walter Hall, Edward Johnson Building. 2.10 p.m. No tickets, no charge. (Music)

24 FRIDAY

24 PRIDAT

Colloquium — "Chemical Disequilibrium — A General Cosmic

Phenomenon" Dr. B. Donn, Cornell University, Ithaca, N.Y. 158 Lash Miller Chemical Laborator-ies. 4 p.m. (Chemistry)

Workshop - "African Music". Dr. Russell Hartenberger, special lec-turer in percussion, Faculty of turer in percussion, Faculty of Music. Walter Hall. Edward John son Building. 1 p.m. See story this page. (Music)

- "Can We Survive Town Forum Inflation in 1975?" Panel discussion, chairman Jim McKinney. 2072 South Building, Erindale. 8 p.m. (Association of Erindale Col-

25 SATURDAY

Conference - "Music for Child-ren". National conference Orff-Schulwerk Society of Canada. Sat-urday Jan. 25 and Sunday Jan. 26. Hermann Regner, director Orff-Institute, Salzburg; Barbara Haselbach, professor of dance, Orff-Institute, Salzburg; Mario Duschenes, director CAMMAC. Walter Hall, Edward Johnson Building. Sessions begin Saturday 9.15 a.m., Sunday at 9.30 a.m (Music)

(Music)
Lecture - "Fungi and Human Affairs". Prof. John F. Morgan-Jones, Department of Botany. Convocation Hall. 8.15 p.m. (Royal Canadian Institute)

28 TUESDAY

Lecture - "Writers at War: Pro-paganda and Fiction in World War Prof. Peter Buitenhuis, Department of English, McGill Univer-sity; visitor to U of T on an exchange lectureship sponsored by the Combined Departments of English. Alumni Hall, Victoria College. 4.15 p.m. (Combined Dents of English)

Colloquium: Astronomy -"Astronomical Studies in the In-"Astronomical Studies in the Mirarred". Dr. Gary Grasdalen, Kitt Peak National Observatory, Tucson, Arizona. David Dunlap Observatory. 4 p.m. (Astronomy)



Seen here are students of the opera school rehearsing "Elixir of Love", opening Wednesday, Jan. 22 at the MacMillan Theatre, Edward Johnson Building.

Meeting - Inter-Varsity Christian Fellowship. Joint faculty – IVCF students' panel discussion "Being Christian on Campus – What's In It?" Terrace Room, Wymilwood, Victoria College, 150 Charles St. West, (IVCF)

29 WEDNESDAY

Lecture: Dentistry – "Biological Mineralization". Dr. I. Shapiro, R.S. McLaughlin Visiting Scientist, Center for Oral Health and Research, University of Pennsylvania, Philadelphia. Room 6, 4th floor, 123 Edward St. 12.30 p.m. (Dentistry)

(Dentistry)
Lecture - "Suspended Animation". Dr. Lloyd G. Stevenson,
Director, Institute for the History of Medicine, Johns Hopkins Uni-versity, Baltimore. Osler Hall, Academy of Medicine, 288 Bloor St. West, 8 p.m. Buffet dinner, 6 p.m., reservations 922-1134 by Jan. 24. (Academy and Associated Jan. 24. (Academy —
Medical Services)

Podio — "Islamic Art

Variations on Themes of Arabesque". CJRT-FM (91.1) 10 a.m. and 7.30 p.m. (Islamic Studies and Open College)

30 THURSDAY
Seminar: Addiction - "Issues in
Treatment" series: "HaightAshbury Free Medical Clinic
Treatment Program". Dr. David
Smith, Haight-Ashbury Free Medical Clinic, San Francisco. Audi-torium, 33 Russell St. 12 noon. (Addiction Research Foundation) Music - "Chhau - The Masked Dance of Bengal". First North Dance of Bengal". First North American tour, ritualistic dance-drama. MacMillan Theatre, Ed-ward Johnson Building. 8.30 p.m. Tickets \$4, students and senior citizens \$2. with I.D. Cheques pay-able "U of T", enclose stamped addressed envelope. (Music)

Music - "Chhau - The Masked Dance of Bengal". Concert preview. Walter Hall, Edward Johnson Building. 2.10 p.m. No tickets, no charge. (Music)

Lecture and Clinical Convention – 17th Walter Wright Lectureship and Clinical Convention. Guest of honour, Dr. Bradley Straatsma, Director, Jules Stein Eye Institute, Centre for the Health Sciences, University of California at Los Angeles, Main Lecture Theatre, Toronto General Hospital. 9 a.m. (Ophthalmology, Academy and Ophthalmology section of Alumni)

### **EXHIBITION**

R.J. Thom, Clifford and Lawrie, Crang and Boake; exhibi-tion of drawings, models and pho-tographs by the architects for the Metropolitan Toronto Zoo. Ex-hibition Gallery, Faculty of Archi-tecture, 9 a.m. to 6 p.m. Monday — Friday only. Jan. 30 — Feb. 14

The Toronto premiere of Italian comic opera

"L'Elisir d'Amore," Donizetti's masterpiece of comic opera, will be given by the Opera Department of the Faculty of Music, Jan. 22, 24, 25, 27 at 8 p.m. at the Mac-Millan Theatre. It will be sung in English. Two casts will alternate and will be made up of Canada's leading young singers, many al-ready members of the Canadian Opera Company and the Stratford Festival in their 1974 seasons.

"The Elixir of Love" is receiving its first Toronto performance, although its premiere dates back to Milan in 1832. It is one of Donizetti's best known operas. A delightful comedy, it is operas. A delightful comedy, it is a favourite of Maestro Ernesto Barbini, who will conduct. Bar-bini's work has been synonymous with Italian opera in Canada since he left the Metropolitan Opera 22

years ago to join the Opera De-partment and the Canadian Opera Company (then the Royal Conservatory Opera Company.) He has recently been appointed musical director of the Manitoba Opera Company.

Seventy members of the Uni-ersity of Toronto Symphony Orchestra under the direction of Victor Feldbrill will be in the pit. A newly enlarged chorus directed by Michael Evans will be a wel-come addition to this opera department production and subsequent ones.

In rehearsal since the end of

October, the department has chosen to do the charming English version of the work prepared by Ruth and Thomas Martin. This team has translated many of the leading works of the Italian repertoire into English.

### Rilke symposium beginning today

The Graduate Department of German and the Goethe Institut are sponsoring a Rilke Symposium, to be held Friday, Jan. 17 and Saturday, Jan. 18 in the Com-bination Room of Trinity College.

The symposium begins Friday afternoon at 2 p.m. At 8 p.m. Fri-day evening Prof. Einhart Kawerau of McMaster University will give a lecture on "The

Psychological Conflict in Rilke's Life". Prof. Kawerau will display 24 original Rilke letters and 30 autographed first editions on this

The symposium continues Sa turday morning at 10 a.m. At 12 noon there will be a seminar in which everyone is invited to take part in an attempt at a joint interpretation of one or two Rilke

## Law lecture series in February

The Faculty of Law announces that this year's D.B. Goodman Memorial Lectures will be given by the Hon. Emmett M. Hall, formerly a Justice of the Supreme Court of Canada. They will be held in the Faculty's Moot Court Room on Tuesday, Wednesday, and Thursday, the 4th, 5th and 6th of February at 4 p.m. each day. The title of the lectures is

"The Anatomy of Inquiries".
The D.B. Goodman Memorial Lectures were established by friends of the late D.B. Goodman Previous lecturers have been the Rt. Hon. Chief Justice Bora Laskin of the Supreme Court of Canada; the Hon. Mr. Justice Martin, a Justice of Appeal of the Supreme Court of Ontario; and J.J. Robinette, Q.C.

## Special workshops for music students

The well-known percussion en-semble, "Nexus", has been awar-ded a \$5,000 grant by the Ontario ded a \$5,000 grant by the Ontario
Arts Council to present a series of
student workshops in the early
months of 1975. The workshops
will be arranged in co-operation with the Faculty of Music. Dr. Russell Hartenberger, special lec-turer in percussion for the faculty, is a member of the Nexus group. The workshops will take the form of participation sessions with groups of students, approximately 40 at a time, being transported to the Faculty of Music for each of the four or five sessions.

As a send-off for the workshop

series, the Faculty of Music is presenting a larger workshop at 1 p.m. on Friday, Jan. 24 in Walter Hall in the Edward Johnson Building, which is open to all interested students and to the general public, free of charge. The subject of the opening workshop will be pening worl 'African Music'

The other members of the en-semble are: Robert Becker and William Cahn, graduates of the Eastman School; Michael Craden, a student of Indian and micro-tonal music; Robin Engelman, principal percussionist, Toronto Symphony; John Wyre, a former teacher at U of T.